5440-42 Educational Technology Specialist

The holder is authorized to plan and implement instruction and evaluate student learning in the use and integration of educational technologies in grades PK-12.

In order to qualify for this endorsement, the candidate shall demonstrate the following:

Knowledge Standards:

Demonstrates knowledge of topics, concepts, and skills essential to the effective integration of technology in the teaching and learning process, as delineated in current national professional standards[1] including:

The history and cultural significance of information technologies and the impact of information technology on learning, today's society, cultural diversity, and ecological sustainability

Ways technology can be used to support high-quality, standards-based curriculum, instruction, and assessment in all content areas, including instructional design principles that rely upon research-based learning theories to guide the use of computers and other technologies in education

Proficiency in current technologies

Strategies for troubleshooting and maintaining various hardware and software configurations

Ways assistive technologies can be used to support the learning of children with various forms of disabilities

Performance Standards:

Supports the effective integration of technology throughout all areas of the school's curriculum as delineated in Vermont's *Framework of Standards and Learning Opportunities*. Specifically, the educator:

Identifies, helps design, implements, and evaluates authoring, programming, and problem solving environments for use in the classroom

Designs and implements, and collaborates with classroom teachers to design and implement, tasks or projects that incorporate various technologies as tools to facilitate and enhance students' research, critical thinking, problem solving, analysis, collaboration, communication, and presentation skills

Assists classroom teachers and other staff to develop effective means of assessing students' learning of technology concepts and skills across the curriculum, and to assess technology's impact on the enhancement of student learning

Collaborates with classroom teachers and other staff to conduct needs-assessments that identify instructional problems for which information technologies might be appropriate components of the solution

Adapts to new technologies and helps teachers to integrate them into the educational process, as appropriate

Collaborates with special educators and student support professionals to identify and implement technologies to support the learning of students with various forms of disabilities

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Applies and models the ethical use of educational technologies

Demonstrates sensitivity to inequities in technology access in schools by incorporating and modeling specific instructional strategies that promote equity

Collaborates with other school and district staff to evaluate the effectiveness of the school and/or district's implementation of its information technology plan

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[1] **e.g.,** *National Educational Technology Standards for Teachers* **(2000, International Society for Technology in Education)**